

SECTION 12. TELECONFERENCING INSTALLATION PROCEDURES

The following is a quick reference for installing the Internet Relay Chat (IRC) Server and Client Applications on SUN or HP machines. For more detailed information regarding the installation and operation of either the IRC Server or Client applications, please refer either to the on-line help documentation at time of installation or to the most recent version of the “GCCS System Administrators Manual”. See Table 12-1.

Table 12-1. GCCS Teleconferencing Segments

Application	Version	Size	Tape	Comments
Teleconferencing Segments				
HTTPD HTML Server	1.1	1361	2.2 (AP.2)	
Internet Relay Chat Clients	1.1	6716	2.2 (AP.1)	
Internet Relay Chat Server	1.1.01		2.2 (AP.2)	
IRC Client Patch 1	1.0	22	2.2 (AP.1)	
Netscape News Server	1.0.0.2.01			Requires Netscape license, released separately
* Netscape Web Browser	3.0		2.2 (AP.1)	
Netsite Web Server	1.1	11859		Requires Netsite license, released separately
News Make Group	1.0.0.2		2.2 (AP.1)	

* Segment is new and should be loaded if upgrading from 2.1 to 2.2.

12.1 Installing and Configuring IRC Server Application

12.1.1 Pre-installation Instructions

The IRC Server should be installed on the application server machine for your site.

Before installing the IRC Server, be sure that you’ve done the following:

- a. Determine which sites on the SIPRNET you wish to communicate with on the IRC network.
- b. Contact the systems administrator for these sites and obtain the following information:
 1. Site Name
 2. Machine name and/or IP Address
 3. The Authentication Code for the IRC server at this site
 4. Whether this site’s server is a “hub” or “leaf” server on the IRC Network.

IRC servers at these sites will be referred to as “IRC Server Neighbors”. You will also have to provide the above information to these sites as well so that they can configure their IRC servers accordingly.

This IRC server installation routine creates the */h/COTS/IRCS/lib/ircd/ircd.conf* file which contains the configuration information for your server. Since most of the information contained in this file is in plain text, this file may be modified using a text editor to make minor changes, if necessary (e.g. correcting typos, changing an operator’s nickname, etc). If you have modified this file manually, execute the following command so that your changes may take affect:

```
kill -HUP `cat /h/COTS/IRCS/lib/ircd/ircd.pid`
```

NOTE: Single-back-quotes [```] are used in this command and NOT apostrophes [`'`], or single-forward-quotes.

When using the Segment Installer to install this segment, pay close attention to and follow all instructions provided. Please be sure to make note of any warning messages which may appear during the course of the installation.

12.1.2 Installation Walkthrough

The following is a brief walkthrough of the installation procedures for the IRC Server:

a. IRC Server Type Specification

When prompted, type [**leaf**] or [**hub**] to specify your server as a ‘leaf’ or ‘hub’ server respectively. If you are not sure whether or not your server is a hub or a leaf, then, accept the default of “leaf”.

b. IRC Server Host Configuration

1. If the machine configuration information displayed is not correct for your machine respond [**N**]. This will terminate the installation procedures allowing you to check your machine’s configuration and make necessary modifications.
2. If the machine configuration information displayed is corrected, press **<Enter>**.
3. If another IRC server has been located in your domain and you wish establish another server in your domain, type [**Y**] and press **<Enter>** when prompted.
4. When prompted, enter the correct server name for your IRC server if the default server name specified is not correct. If your machine has an DNS alias with the prefix “irc”, enter the **full DNS alias name here**.

c. IRC Server Administration Specification

1. Enter the name of your facility (e.g. “Kiesler AFB”).
2. Enter a brief function description of your server (must be 65 characters or less). This description should indicate how the server will be used on the network (e.g. Hub Server for SE USA).
3. Enter the **name, e-mail address and/or telephone number** of the person who can provide technical assistance to users accessing this server.

d. IRC Server Operator Specification

NOTE: IRC Operators need not be specified for leaf servers. Therefore, this routine may be by-passed for leaf servers, if desired.

NOTE: The IRC Operator nickname is “oper” by default. The *ircd.conf* file can be edited if a different nickname is desired.

1. When prompted, press <**Enter**> to allow operators to connect to your server from any machine in your server’s domain.
2. If you do not want operators to connect to your server from any machine in your server’s domain, enter the **machine name or IP address** of the machine from which they can connect to your server as operators.

NOTE: You may use wild cards for the machine name or IP address to specify multiple machines.

3. When prompted, enter a **non-null, authentication code (8 characters or less)** that IRC operators will use to authenticate themselves on client machines.
4. Repeat steps “4b” and “4c” above to specify additional client machines that IRC operators may use to access the server.

e. IRC Server Neighbors Specification

Neighboring IRC Servers should only be specified after ALL of the information specified in the “Pre-Installation Instructions” section of this document has been obtained for a particular site.

NOTE: IRC Neighbor Servers need not be specified at time of installation. Therefore, this routine may be by-passed, if desired. You may execute the routine to specify neighboring IRC servers at a later time.

/h/COTS/IRCS/SegDescrip/IRC_Neighbors

1. When prompted, enter the **name of the machine hosting** your neighbor's IRC server.
 2. Enter your **neighbor's IRC server name** (that is, the IRC server name your neighbor used or will use when installing their IRC server.)
 3. Enter a **non-null, authentication code (8 chars or less)** that your server will use to access your neighbor's server.
 4. Enter a **non-null, authentication code (8 chars or less)** that your neighbor will use to access your server.
 5. When prompted, indicate whether or not this neighboring server is a [**hub**] or [**leaf**] y responding [**Y**] or [**N**], respectively.
 6. Repeat steps "5a" to "5e" above to specify additional neighboring IRC servers.
- f. IRC Server Automatic Start-up

Please make note of all pertinent information that appears in this display window.

12.2 Installing and Configuring IRC Client Application

12.2.1 Pre-Installation Instructions

The IRC Client should be installed on any machine from which users are to have access to teleconferencing applications. You will also want to install the IRC client application on the same machine that the IRC server is installed (e.g. your site's application server machine).

Before installing the IRC client application, be sure that the following segment has been installed on the same machine:

TCL (i.e. /h/COTS/TCL)

NOTE: Use the Segment Installer to install TCL.

When using the Segment Installer to install this segment, pay close attention to and follow instructions provided. Please be sure to make note of any warning messages which may appear during the course of the installation.

12.2.2 Installation Walkthrough

- a. When prompted, type a [**Y**] and press <**Enter**> to specify a new default IRC server for this

client. Or press <Enter> to specify the IRC server displayed as the default server.

- b. If specifying a new default server, then enter the name machine name or IP address of the machine you wish to be the new default server for this client and press <Enter>.
- c. If this machine could not be detected on the network (using ping), type [Y] to indicate that you wish to use this machine name/IP Address anyway or type [N] to enter another machine name or IP address.
- d. If you have specified a new default IRC server for this client, you will need to make sure that an [I] line specification for this client exists in the *ircd.conf* file of the new default server before this client can have access to this server. If an [I] line does not exist for this client, you will need to manually add one to this file. The [I] line should be added immediately after the [Y] lines and should have the following format:

I::fully-qualified_machine_name::1

e.g. I::trident.osf.disa.smil.mil::1)

- e. If you have modified the *ircd.conf* file of the new default server, you will need to execute the following command so that your changes may take affect:

kill -HUP `cat /h/COTS/IRCS/lib/ircd/ircd.pid`

NOTE: Single-back-quotes [`] are used in this command and NOT apostrophes ['], or single-forward-quotes.

- f. To run the IRC client application from the command line, type the following:

/h/COTS/IRCC/bin/zircon.init

12.3 Installing Netscape Web Browser Application

The following is a quick reference for installing the Netscape Web Browser application for the DII on Windows NT. For more detailed information regarding the installation and operation of the Netscape Web Browser application, please refer either to the on-line help documentation at the time of installation or to the most recent version of the *DII System Administrators Manual*.

12.3.1 Installation Procedures

The Netscape Web Browser application should be installed on any client or server machine that you want to create news groups from. Once the application is installed, you will be able to access the SIPRNET using the Netscape Navigator capabilities. The Netscape Web Browser will be used to access the SIPRNET Web, Newsgroups, and E-mail.

The Netscape Web Browser, when launched, will NOT default to the Netscape Home page, **home.netscape.com**. A blank page will initially be displayed and the user should select the **Options** menu selection and then **General Preferences** section. In the General Preferences dialog, you may enter in your default Home Page when the Netscape Web Browser is launched. The default Home page URL should be entered in the entry contained in the “Startup” section within the “Start With” sub-section. The “Home Page Location” radio button should be clicked [**on**] and the “Blank Page” radio button should be clicked [**off**].

After the installation is completed, you should be able to <double-click> the icon labeled **Netscape Web Browser** in the System Administration Account Group under the Program Manager Group. You should then see the “*Netscape Navigator 2.01*” banner pop-up and then see the main application window displayed.

If any pop-up error dialogs are displayed during the launching of the “Netscape Web Browser”, you should check to see if they are related to correct pathnames and filenames. You can modify the pathnames and filenames for the mail, news and cache functions by selecting the **Options** menu selection, and then the appropriate sub-menu. Within each sub-menu, you will see entries where you may edit the default paths to the proper directories.

The Netscape Web Browser client application should be installed on any machine from which users are to have access to teleconferencing applications. You may also want to install Netscape on the same machine that the Netsite Web server is installed (e.g. your site’s application server machine)

When using the Segment Installer to install this segment, pay close attention to and follow instructions provided. Please be sure to make note of any warning messages which may appear during the course of the installation.

12.3.2 Installation Walkthrough

- a. When prompted, enter the **name of your organization using 64 characters or less**.
- b. When prompted, indicate whether or not the name you entered is correct by responding [**Y**] for ‘correct’ or [**N**] for ‘not correct’.

NOTE: You may or may not be prompted to enter the **machine name of your local web server**. However, if a prompt for this information should appear, enter the **machine name of your local web server**.

- c. When prompted, indicate whether or not the machine name you entered is correct by responding [**Y**] for ‘correct’ or [**N**] for ‘not correct’.
- d. To run Netscape 2.0 from the command line, type the following:

/h/COTS/WEBBr/bin/netscape.init

12.4 Installing Netsite Web Server Application

The following is a quick reference for installing the Netsite HTTP Web Server (WEBSv) and Netscape Web Browser 2.0 applications on DII on SUN or HP machines. For more detailed information regarding the installation and operation of either the Netsite Web Server or Client applications, please refer either to the on-line help documentation at time of installation or to the most recent version of the “*GCCS System Administrators Manual*”.

12.4.1 Pre-installation Instructions

The Netsite Web Server should be installed on the application server machine for your site.

When using the Segment Installer to install this segment, pay close attention to and follow all instructions provided. Please be sure to make note of any warning messages which may appear during the course of the installation.

12.4.2 Installation Walkthrough

The following is a brief walkthrough of the installation procedures for the Netsite Web Server.

a. Machine's configuration:

1. If the machine configuration information displayed is not correct for your machine respond [N]. This will terminate the installation procedures allowing you to check your machine's configuration and make necessary modifications.
2. If the machine configuration information displayed is corrected, press <Enter>.
3. If another HTTP server has been located in your domain and you wish establish another server in your domain, type [Y] and press <Enter> when prompted.
4. When prompted, enter the correct server name for your Netsite Web server if the default server name specified is not correct. (If your machine has an DNS alias with the prefix “www”, enter **full DNS alias name here**).

b. Web Server Administration Specification

1. Enter the name of your site/installation using 64 characters or less (e.g. FORSCOM', 'Pacific Command').
2. When prompted, indicate whether or not the name is correct by responding [Y] for 'correct' or [N] for 'not correct'.
3. Enter the access name for the web server administrator.

NOTE: “admin” is the default access name for the Netsite administrator.

4. When prompted, indicate whether or not the name you entered is correct by responding [Y] for 'correct' or [N] for 'not correct'.
5. Next, enter a **non-null, authentication code (8 characters or less)** that your Netsite administrator will use to authenticate himself/herself when accessing the Netsite administration server.
6. When prompted, indicate whether or not the code you entered is correct by responding [Y] for 'correct' or [N] for 'not correct'.

c. Web Server Automatic Start-Up

Please make note of all the information displayed in this window. You will want to especially make note of the location of start-up and shutdown scripts created for your Netsite Web server and your Netsite Web server's administration server.

When the Netscape "DONE.html" page appears, read and carefully follow all directions presented to configure your Netsite Web server.

NOTE: After starting up the administration server, click on the highlighted reference tag to access the web server administration server. However, if you do not wish to configure your web server at this time, simply exit Netscape at this time.

12.4.3 De-installing Netsite Web Server Application

a. Web Server De-Installation Archive

1. When de-installing the Netsite Web Server, you will first be presented with a menu listing commands which will allow you to examine and archive documentation that has been created under your web server's document root directory. If you wish to archive any of these documents, carefully read and follow all instructions in the menu options presented.
2. To exit the archive menu and continue the de-installation of your Netsite web server, type [5] and press <Enter>.

12.5 Installing Mail Services (MSVCS) Application

The following is a quick reference for installing the Mail Services (MSVCS) Segment on DII SUN and HP machines.

a. Pre-installation Instructions

The Mail Services segment should be installed on the same machine that your *news server* is installed on.

When using the Segment Installer to install this segment, pay close attention to and follow all instructions provided. Please be sure to make note of any warning messages which may appear during the course of the installation.

b. Installation Walkthrough

To install the Mail Services segment, simply select the **Mail Services** segment from the COE Installation tool's segment selection window and click on the **Install** button.

The installation of this segment requires no additional input from the installer.

12.6 Installing News Make Group

This segment allows users to create a newsgroup. It enforces the naming convention specified in the TLCF CONOPS. This program provides a command-line interface to newsgroup creation.

On all client machines where users who might want to create a newsgroup sit:

Multiple executables in the progs directory work together to provide newsgroup creation. MakeGroup.init is the script called when the "Make Grp" icon is pressed. It creates an xterm and runs MakeGroup inside of it. MakeGroup, in turn, executes news.aut and GetActive to download a list of currently-existing newsgroups. It then prompts the user to get the new newsgroup name, ensures its correctness, and then calls makegroup. Makegroup builds a control message and then calls postnews to post the article to the news server. Note that makegroup runs sgid, and postnews can only be run by root or under group mail. Postnews provides no error checking as far as contents of the article being posted is concerned.

Step 1: Verify installation of required segments:
GCCS COE 2.0.

Step 2: Install News Make Group 1.0.0.2.

The following will be presented to the installer:

Please enter the names of the machines running news servers for this site. This list will be made available as a menu to users running the news client.

Enter the first server name: (server name)

Is <server name> correct? (y/n) [y]:

Please be patient while we ping (server name).

(server name) is alive

Ping confirms that the machine is there.

Entering (server name) into the menu of news servers.

Enter the second server name: (server name).

Allow users to create “*.limited.*” newsgroups. Does this by stripping “.limited.*” off of the newsgroup name -- the control msg will follow the distribution specified by the portion of the newsgroup name which comes before the “limited”.